Abstract

A system and method for obtaining scratch registers in a computer-executable binary is provided. Register allocation requests in a computer-executable binary are discovered. In one method, the register allocations are examined procedure-by-procedure. The maximum number of registers requested by any instruction in the procedure is discovered. Then, register requests in the procedure are modified to request the maximum number discovered plus a number of scratch registers. In another method, the register allocations are examined block-by block within a procedure. Dominating register allocations for each block are found. Then the dominating register allocations are modified to request scratch registers.

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